

**Broward County LMS Working Group
Proposed Mitigation Project
(Page 1 of 7)**

Date of Submittal: _____

Project Identification Number (Internally Assigned): _____

Proposing Jurisdiction/Organization: _____ City of Dania Beach _____

Contact Name: _____ Colin Donnelly, Assistant City Manager _____

Address: _____ 100 W. Dania Beach Boulevard _____

Address: _____ Dania Beach, FL 33004 _____

Telephone: _____ 954-924-6800 x3613 _____ Fax Number: _____ 954-921-2604 _____

Email Address: _____ cdonnelly@ci.dania-beach.fl.us _____

The Proposal – Provide a narrative describing the proposed Initiative and attach maps (both of the location of implementation and area to be benefitted), diagrams and pictures supporting or describing the project:

(Include project area location (address/lat-long coordinates), detailed description of project and all its components. If project involves modifications to multiple structures, provide an attached spreadsheet listing each structure.)

This project will retrofit Dania Beach's Police Station operated by Broward Sheriff's Office (BSO), which serves the central and western sections of Dania Beach west of I-95. This building was a fire department building in the past. It has a large bay area that houses specialized police vehicles. This sheriff station serves Dania Beach Casino, three highways, a large marine industrial industry, port properties and the Florida Fishing Hall of Fame. It also serves a mix of older residential homes, commercial and light industrial uses. It provides mutual aid to the surrounding cities, the Hollywood-Fort Lauderdale International Airport and Port Everglades. This retrofit project consists of:

- **Replacing the roof.** The building was constructed in 2008 and it was built to withstand a Category 4 rating at that time. During Hurricane Irma, the building suffered roof damage which cannot be repaired. This mitigation project will secure the building envelope and increase the structural integrity during a wind event by upgrading/improving the roof deck and/or coverings. This upgrade includes strengthening the connection of the decking to the supporting rafters/trusses, using larger nails at a closer spacing, and the replacement of any degraded deck panels. This project will increase the size and number of fasteners that connect the deck to the supporting members, based on the appropriate building code guidance. Additionally, the roof covering will be rated to resist the maximum design wind speeds at the project site. The roof will be built to withstand a Category 5/155 mph wind rating.
- **Installation of a generator back-up power supply.** Generators are an absolute necessity for sheriff stations to allow for full emergency services after the storm. Not only does a generator power the building, it recharges all of the battery operated equipment (defibrillators, radios, etc). The sheriff station is staffed with 25-30 officers during a storm event to ensure appropriate staffing after the event. The generator in the building now is original to the station, does not power the entire building and needs to be replaced. This generator failed during Hurricane Irma leaving the building without power and without the ability to fully serve the community. This project will replace the current 200 kW generator with a 250 kW generator that can power the entire building.

Without a new, stronger roof the structural integrity of the building could be threatened in a future hurricane-force wind event, resulting in the need to relocate the officers and as a result disrupting public safety operations for the central/western quadrant of Dania Beach. The building has hurricane impact windows and is otherwise structurally sound.

Hurricane Irma, whose eye traveled up the middle of the state just west of Dania Beach, had a top wind speed of 178 mph, according to the National Hurricane Center. During an emergency (most frequently a hurricane or tropical storm), 25-30 sheriff personnel operate out of 4601 SW 30th Ave. Retrofitting the station's roof ensures that first responders can address police and emergency issues as they arise, and assist with evacuation activities until it is no longer safe. Post-disaster, they will be ready to respond again as soon as the emergency and/or hurricane has passed.

The Dania Beach Police Station is located at: 4601 SW 30th Ave, Dania Beach, FL 33004 Latitude: 26.065389/Longitude: -80.183060. Dania Beach's population is 31,046.

The Action Alternative to the Proposal – Provide a narrative describing the proposed Initiative:

(Include a description of alternative and why the proposed action was selected over this alternative:)

The alternative action is to retrofit strapping and other measures to secure the roof and make general repairs to the damaged sections. This would require repairs to several areas, but without assurance that all the leaks would be repaired. There is also a possibility of mold under the roof due to the water damage from Irma. Sections may be rotted and require repairs. Professionals have said that repairs would cost more than a new roof and would not carry a warranty on the work.

A second alternative action is to repair the ten year old generator and attempt to upgrade it to continue to provide back-up power to the police station.

What is the impact of no action?: __The impact of no action is to experience the same result as during Hurricane Irma. The roof will likely fail again and the generator is not reliable to provide back-up power during the post-storm days.

**Broward County LMS Working Group
Proposed Mitigation Project
(Page 2 of 7)**

The Benefits of the Proposal – Provide detailed information regarding the benefits of the proposed initiative, or quantify, to the extent possible, the value of the costs avoided if the proposal is implemented.

1. Provide a brief history of losses in the project area to the hazard proposed to be mitigated (e.g., # of floods, dates and damages/flood depths, buildings/infrastructure affected):

During Hurricane Irma the BSO building suffered roof damage and water leaks. Its windows also leaked. The permanent generator failed, leaving the station without power. Hurricane Irma's top wind speed reached 178 mph over Lake Okeechobee. This storm could easily have tracked just a few miles to the east and hit the City of Dania Beach directly. Tens of thousands of Florida Power & Light customers suffered a week or more without power, which results in a critical public safety issue, threatening life and property. The Dania Beach Police Station needs a building with structural integrity in order to ensure continuity of operations, to protect life and property, to provide mutual aid as needed, and to preserve critical communications functions. Overall, nearly 4.5 million of FPL's 4.9 million customers had their power fail, including 92 percent of accounts in Miami-Dade County and 85 percent in Broward County. Southeast Florida experienced gusts of up to 99 mph. In Dania Beach, several areas lacked power for nine days after the storm. With Irma, FPL said 2,000 utility poles went down.

Hurricane Irma's wind speed was not unique. Hurricane Wilma's (2005) top wind speed in the South Florida region was even higher -- 183 mph. 12,000 utility poles were damaged by Wilma. 98 percent of homes and businesses in

Miami-Dade and Broward lost power. Many customers were in the dark for several weeks, and in Dania Beach, many remained without power for 2-3 weeks.

The proposed project will reduce future damage from high winds, health and safety risks, clean-up costs and displacement time from the police station. The building housed the city's EOC in the past and now houses the sheriff and the city's IT back-up and redundancy center. The building is critical to city operations.

The building was built as a fire station and has a large bay area. The police house the mobile command post, the bomb squad vehicle and several squad cars in the bay area – all estimated at about \$500,000 in value.

2. If the proposed initiative is specifically intended for protection of designated critical facilities:

Is a designated "critical facility" or "essential service" to be benefitted? **YES / NO** If yes, provide type, name and address of facility and/or describe service:

<u>Type</u>	<u>Owner</u>	<u>Address</u>	<u>Lat/Lon</u>
Police Station	City of Dania Beach	4601 SW 30 th Ave, Dania Beach, FL	26.065389 and -80.183060

This retrofit project will mitigate any effects from loss of sheriff services in the central and western area due to building structural failure. It will allow for continuous operations of sheriff personnel in the City's western section.

3. For all types of projects, including those for protection of designated critical facilities:

Number of residential population directly benefitted: 31,500; 1,909,632 Broward County population served by mutual aid

Number of daytime worker/tourist population directly benefitted; 31,500 + 4120 snowbirds and tourists = 35,620

Other population directly benefitted: 1,909,632 Broward County population served by mutual aid

Describe how project will protect above populations to substantiate:

The police station houses officers during a storm to ensure that the police can respond immediately after the storm or emergency has passed. This building is in central/western Dania Beach and ensures that residents and visitors in these areas have emergency services as quickly as possible. It is also the city's back-up EOC and the location for all IT back-up and redundancy. The facility is critical to continuity of government if City Hall is compromised in a storm. This sheriff station serves the Dania Beach Casino, three highways, a large marine industrial industry, port properties, approximately 28 hotels, a federal border patrol office and the Florida Fishing Hall of Fame. It also serves a mix of older residential homes, commercial and light industrial uses.

Other jurisdictions/agencies benefitting (list and describe)? The City of Dania Beach has mutual aid agreements with Broward County, City of Hollywood, City of Fort Lauderdale, Town of Davie, Port Everglades, and Fort Lauderdale/Hollywood International Airport.

(Attach letters of support from other jurisdictions/agencies)

Number of structures to be benefitted: 1 Key infrastructure protected: BSO Sheriff Station

Total estimated value of structure(s) and contents: Building replacement value = \$2,700,000 Value of contents = \$800,000 (Mobile command post vehicle, bomb squad vehicle, several squad cars and general police and administrative equipment) Total = \$3,500,000

**Broward County LMS Working Group
Proposed Mitigation Project
(Page 3 of 7)**

Hazards Being Mitigated:

___ Flood (How: _____)

☒ Wind (How: _This project protects a critical facility from structural damage due to wind._)

___ Coastal Erosion (How: _____)

☒ Other Hazards of Most Significant Concern (List and How Protected: _This project protects against loss of electrical power due to storm damage.)

Does the project include an additional safety margin for future risk (e.g., urbanization, sea level rise from climate change?). If so, describe:

4. Is avoidance of evacuation to be the outcome of the proposal? **YES / NO**

If yes, explain: ___With protection against high winds, the BSO can stay in the facility during the storm and can provide police services immediately after the emergency event.

5. Is protection of the ability to evacuate to be an outcome? **YES / NO**

If yes, explain:

Estimated number of evacuees benefitted by proposal: _____

Estimated number of businesses avoiding evacuation by proposal: _____

6. What are the anticipated impacts to the environment (include direct and indirect environmental benefits):

___ Improves the environment

___ Undetermined if project impacts the environment



☒ XX Neutral to the environment / Not Applicable

☐ Poses a risk to the environment

**Broward County LMS Working Group
Proposed Mitigation Project
(Page 4 of 7)**

Please specify whether project:

☐ Negatively affects land ☐ Negatively affects water ☐ Negatively affects Endangered Species

☐ Negatively affects HAZMAT/Waste Sites

☒ X Is consistent with community environmental goals ☒ X Is consistent with local, state and federal laws

7. Valuable cultural, historical or civic resource to be protected: **YES / NO / NA**

If yes, give name, type, description and address of resource:

<u>Name</u>	<u>Type</u>	<u>Description</u>	<u>Address</u>
-------------	-------------	--------------------	----------------

8. Cost of Proposal – Provide the cost to implement the proposal: \$___\$165,000 for the generator_ + \$100,000 for a new flat roof = **\$265,000** _____

(Attach proposed budget if available)

Describe all potential funding sources: ☐ FEMA, State of Florida EM, City of Dania Beach _____

What is the jurisdiction's plan to meet the non-federal match? (if required of funding source): If awarded, the City of Dania Beach will budget for its share of the required non-federal match in the 2019-2020 budget year.

Briefly explain the components considered in estimating the cost of the proposal:

Provide the annual cost of maintaining the project: __\$2500 for the generator__and \$2500 for the roof_____

Estimated life of project: _16-25 years_____years(s)

Broward County LMS Working Group
Proposed Mitigation Project
(Page 5 of 7)

Timing of implementation

9. Provide an estimate of the time needed to complete construction in months: __90 days_____

Provide an estimate for the time needed to complete A&E, bidding, etc. __90 days_____

Consistency with Other Plans and Programs

____ Comprehensive Emergency Management Plan (list Section: _____)

X Local or County Comprehensive Plan (list Section: _ Intergovernmental Coordination Element Goal; Capital Improvement Goal_____)

_____)

____ Local Mitigation Strategy (LMS) (list Section: _____)

____ Climate Change Action Plan (list Section: _____)

____ Broward County Land Use Plan (list Section: _____)

____ Long-Term Transportation Plan (list Section: _____)

____ County or Local Capital Improvement Plan (list Section: _____)

X Continuity of Operations Plan (COOP – i.e., protects an alternate facility) (list Section: _____)

____ Local Stormwater Plan (list Section: _ III p3; VIII p4 and A2 p6)

____ Other (list _____)

Feasibility of Implementation

1. Has the proposed project been used elsewhere for the same purpose? **YES / NO / Unknown**

If yes, where? The City has budgeted for and overseen the replacement of numerous roofs on City facilities that meet the current standards _____ When; 2012-2017 _____

Cost Effectiveness

Attach the results of the Loss Estimation Tool analysis for this project

**Broward County LMS Working Group
Proposed Mitigation Project**
(Page 6 of 7)

Funding Pre-Screening

1. Is pre-disaster funding being sought?

☐ Capital Improvement funding ☐ Other local source (please specify) _____

☐ Pre-Disaster Mitigation ☐ Repetitive Flood Claim Program ☐ Severe Repetitive Loss

☐ Fire Management Assistance Grant ☐ Flood Mitigation Assistance

☐ Community Development Block Grant ☐ Residential Construction Mitigation Program

☐ Emergency Operations Center Grant Program ☐ State Homeland Security Grant Program

☐ Florida Beach Erosion Control Program ☐ Community Development Block Grant

2. Is post-disaster funding being sought?

☒ Hazard Mitigation Grant Program ☐ Public Assistance 406 Mitigation funds

☐ Fire Management Assistance Grant ☐ Florida Beach Erosion Control Program

☐ Community Development Block Grant

Name and Title of individual(s) completing form:

Name: Colin Donnelly

Title: Assistant City Manager

Jurisdiction/Organization: City of Dania Beach

Signature: 

Submit form to:

Broward County LMS Working Group
C/O LMS Coordinator
Broward Emergency Management Division
201 NW 84th Avenue
Plantation, FL 33324

**Broward County LMS Working Group
Proposed Mitigation Project
(Page 7 of 7)**

DEFINITIONS

Essential Services:

- First response
- Shelters
- Water/Wastewater
- Power supply
- Telecommunications
- Hospitals

Direct Environmental Benefits

- Example – A stormwater drainage improvement project by better managing stormwater runoff and outfall can improve water quality and reduce the spread of contaminants

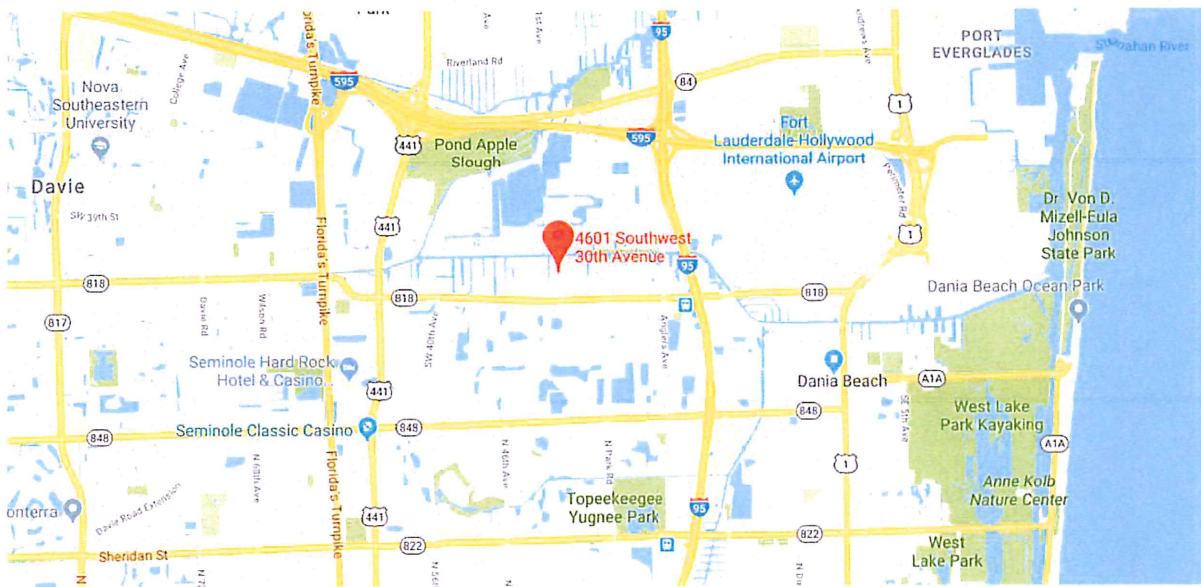
Indirect Environmental Benefits

- Example – Protecting a wastewater treatment plant that if damaged by wind or flood could rupture and spill raw sewage into the environment

Consistency with Other Plans

- See the Mitigation Integration Summary for listing of all plans with some link to hazard mitigation in Broward County

Dania Beach Police Department 4601 SW 30th Avenue Dania Beach FL 33004



4601 SW 30th Avenue, Dania Beach FL 33004

City of Dania Beach: Police Station Roof Replacement and Generator for 4601 SW 30th Avenue

